

Title (en)  
RADIO FREQUENCY CONNECTION ARRANGEMENT

Title (de)  
RADIOFREQUENZVERBINDUNGSANORDNUNG

Title (fr)  
AGENCEMENT DE CONNEXION RADIOFRÉQUENCE

Publication  
**EP 3186854 B1 20210331 (EN)**

Application  
**EP 15777983 A 20150827**

Priority  
• GB 201415272 A 20140828  
• GB 2015052477 W 20150827

Abstract (en)  
[origin: GB2529678A] A radio frequency transmission arrangement comprises a ground plate 8 having first and second opposite sides and a boss protruding from said second side of the ground plate 8, a first transmission line comprising a first elongate conductor 1 passing from the first side of the ground plate through an aperture 3 in the ground plate and the boss, and a second transmission line comprising a second elongate conductor 2 and a ground plane 6, the first elongate conductor 1 passing through the ground plane 6 to connect to the second elongate conductor. The boss has an end surface 4 disposed in a substantially parallel relationship with the ground plane 6 of the second transmission line, and there is a gap between the end surface of the boss and the ground plane. The disadvantages of conventional ways of connecting the ground structures are avoided by coupling the ground structures together at radio frequency by the provision of a gap between opposing surfaces of the respective ground structures. The requirement for flatness of the PCB carrying the ground plane 6 and the ground plate 8 is reduced, particularly when multiple connections are provided.

IPC 8 full level  
**H01P 5/02** (2006.01); **H05K 1/02** (2006.01); **H05K 1/14** (2006.01)

CPC (source: CN EP GB US)  
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**H01P 11/003** (2013.01 - US); **H05K 1/0251** (2013.01 - CN EP GB US); **H05K 1/144** (2013.01 - CN EP US);  
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